21	Pro	 	1	1	 	Leu	1	1	ren Len	ren	Leu	ren	ren 	ren	1) 	1	Met	1	! !	1	Asp	Asp	Asp	1]	
20	(G.]]m		1	Lys	Lys	Arg	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Asn	Asn	Asn	Lys	Arg	Arg	Arg	Lys	Lys	Lys	Lys
19	Ser		1	! !	i 	1 1	1	1	Phe	1	 	1	1	1	 	1	 	1	1	Pro	 	1	! !	1	1 1 1	1	1	
18	Phe	1 1	1	1	1	1	l l	1	1	 	1] [1	1	1	 	1	1	1 1 1	1	1	1	1	1	1	1	1
17	Phe	1		 	1	Ту	Τχ	Τyr	TX.	Tyr	Ty	Τχ	Τχ ^τ	Τχ	 	 	 	Arg	Va	IIe	lle	\ <u>a</u>	\a	Val	lle	lle	1	lle
16	Pro	1		Gln	Lys	Lys	L,ys	L.ys	Lys	Lys	Lys	Lys	Lys	Lys	Arg	Arg	Arg	ren	Lys	Thr	Asn	Asn	Thr	Ser	Asn	Asn	Lys	Lys
15	Asn	1		l i	 	! !	ł ł		 	-	1	1	1	 	l 	1	1	1	 	1	 	1]]]	1		1	
4	Glu	1		1	1	1	1	1	1	1	1	1	1	Glu	1	1	1		!	Pro	1	Lys	Lys	Lys	1	1	Asp]
13	C]m	1	His I	Arg	Arg	Lys	Lys	Lys	Arg	Lys	Lys	Lys	Lys	Lys	G S	Gly	Gly	Lys	Lys	Lys	Lys	Lys	Arg	Arg	Lys	Lys	Lys	1
12	Leu	1		Pro	Pro	1	1	1	} 	t l l	-	! !	1	1	1	1	 	1	1	1	-	1	-	1	1	 	!!!	1
1	Thr	1	Gln	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Arg	Lys	1	Lys	1	1	l !	Lys	1	Arg	Arg
0	Cys	 	 	1	 	1	[[1	1	i l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Human	Chimpanzee	Gibbon	Baboon	Rhesus	Marmoset	Bovine	Ovine	Equine	Porcine	Rabbit	Mouse	Rat	Whale	Quail	Chicken	Turkey	Bullfróg	Salmon 1	Salmon 2	Catfish	Tuna	Yellowfin	Bass	Carp 1	Carp 2	Pike eel	Eel

F/G. 14

	10	7		13	4	5	16	17	18	19	20	21
Human	Cys	Thr	ren Len	G]m	Glu	Asn	Pro	Phe	Phe	Ser	(C)	Pro
) i i	•	1		<u>ره</u>	 	1	 	1	 	! !	1	1
C 15K) 	 	1	r\s	1	1	1	1	1
716X		 		} 	1	1		1	 	 	Lys	1
020K		1		1	1	1	Lys	 	l 	 	Lys	1 1
P 16K + 020K + (713K	1		Lvs	1	l i	Lys	-	 	1	Lys	1
P16K+Q20K+Q13K+E1	213K+E	741		Lýs	Lys	 	Lys	1	1 1 1	1	Lys	l

F/G. 1B

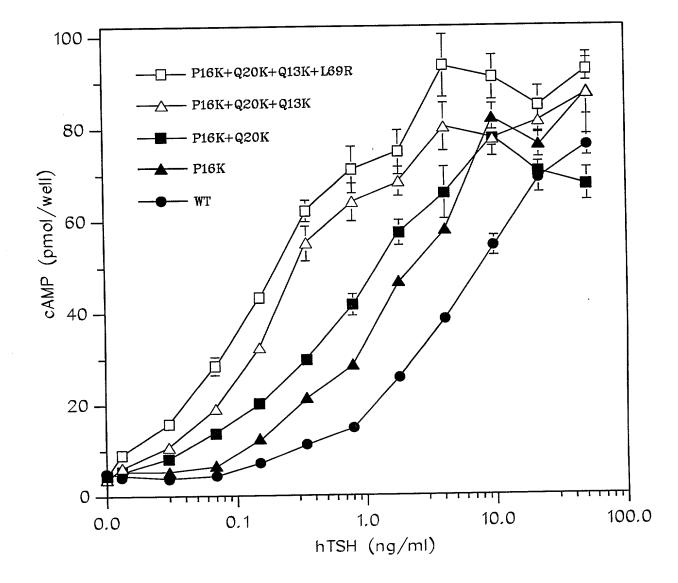
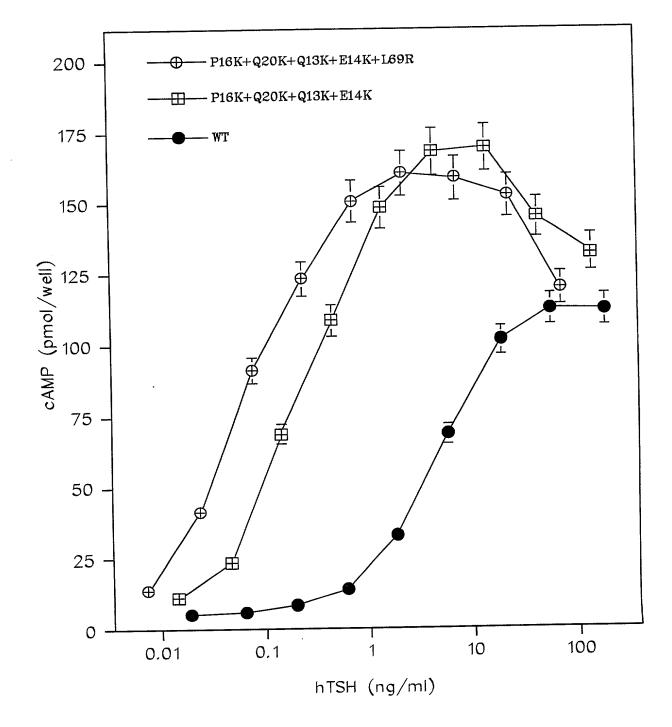
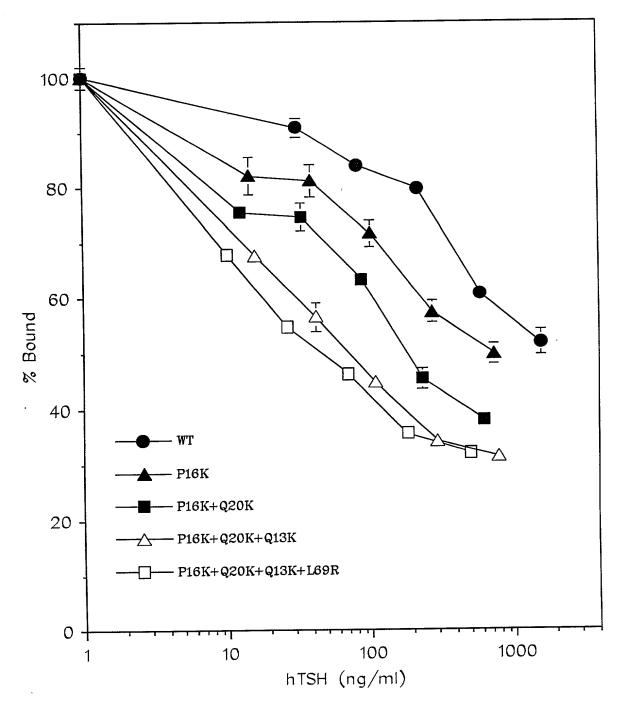


FIG. 2A



F/G. 2B



F/G. 2C

FIG. 2D

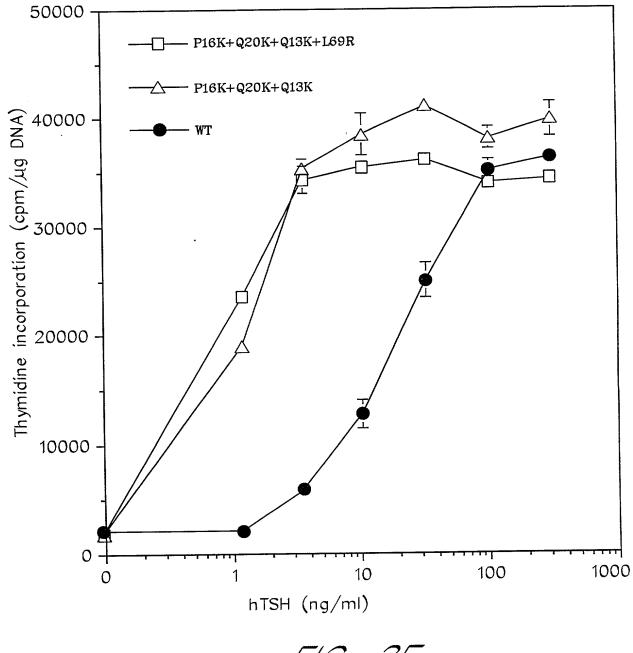


FIG. 2E

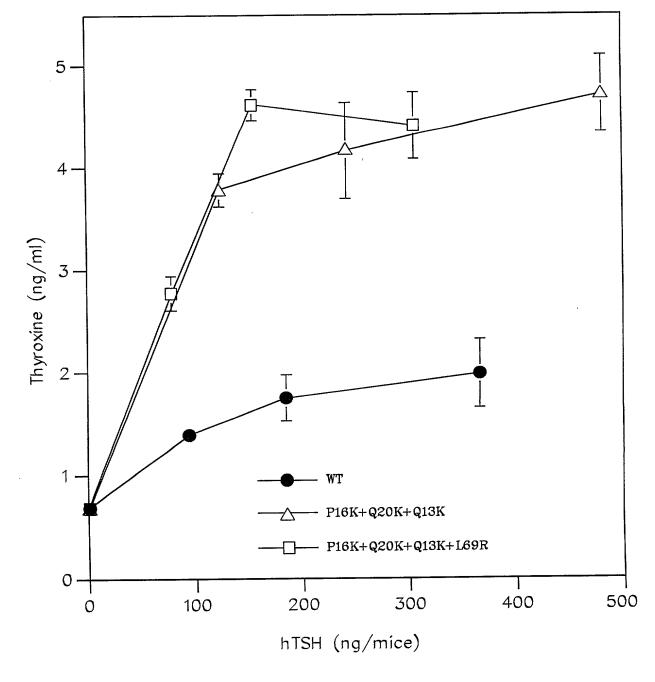
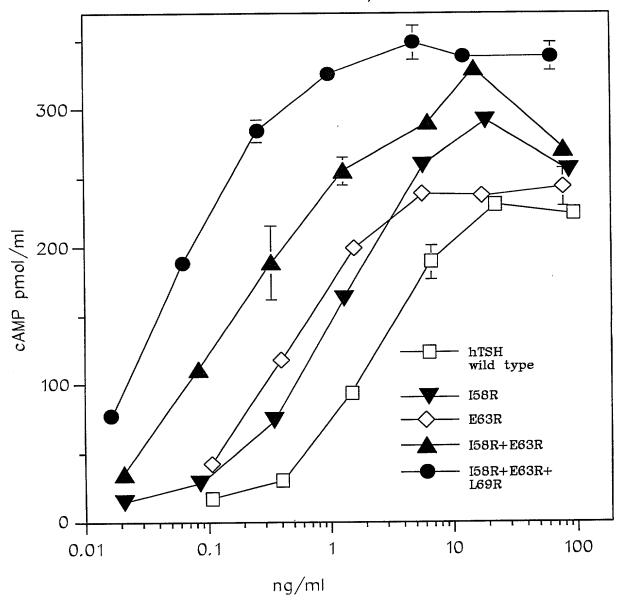


FIG. 2F

cAMP Production in CHO-hTSH Receptor Cells



F/G. 2G

Binding to CHO-hTSH Receptor Cells

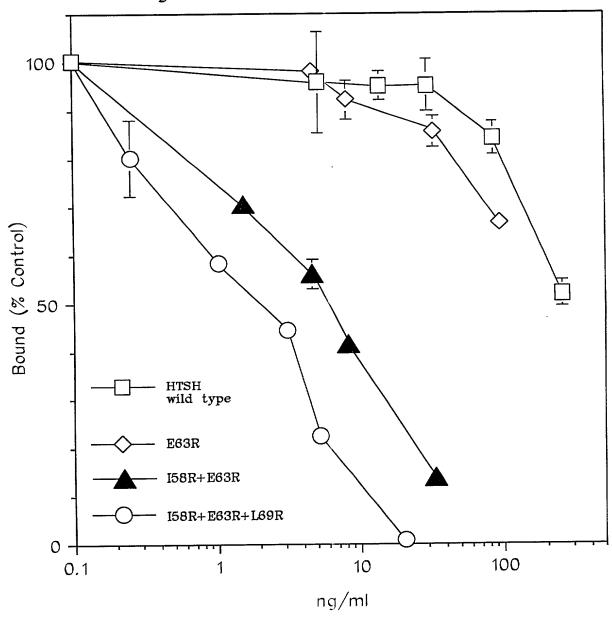
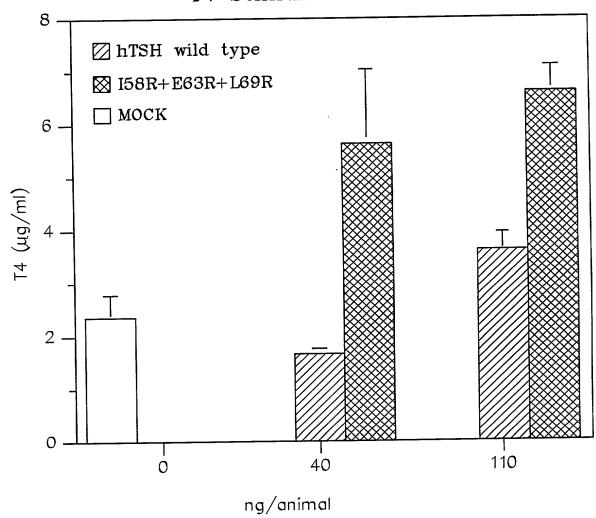
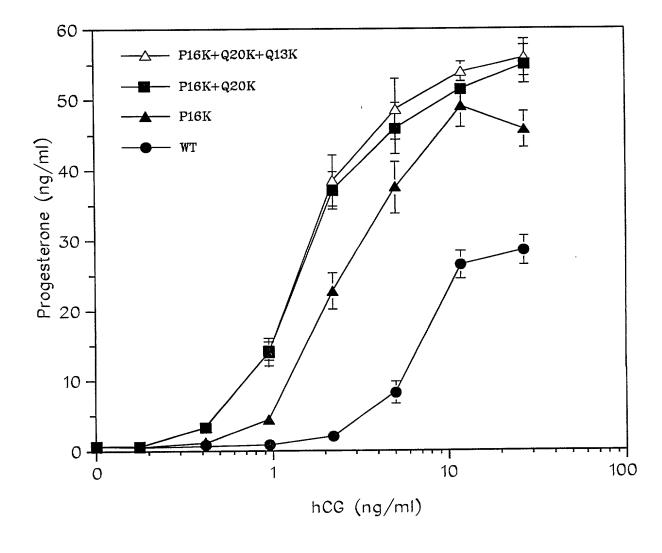


FIG. 2H

T4 Stimulation in Mice



F/G. 2I



F/G. 3A

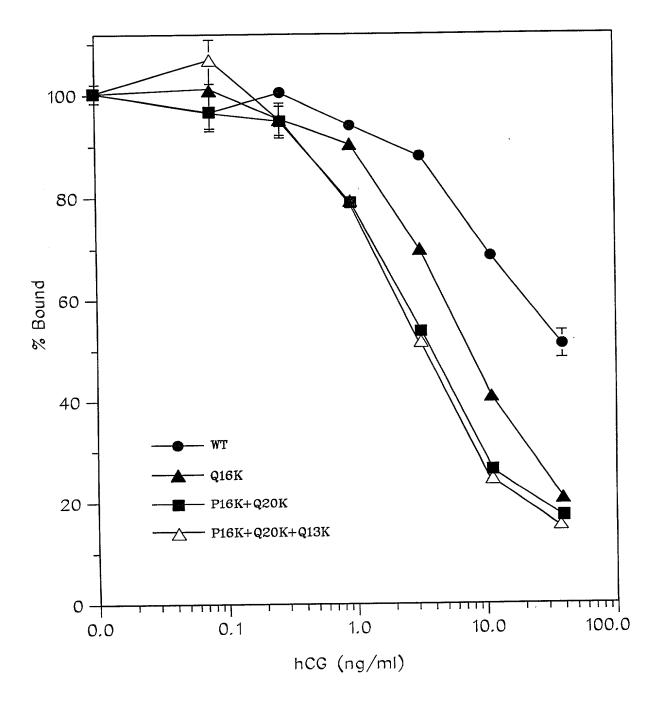
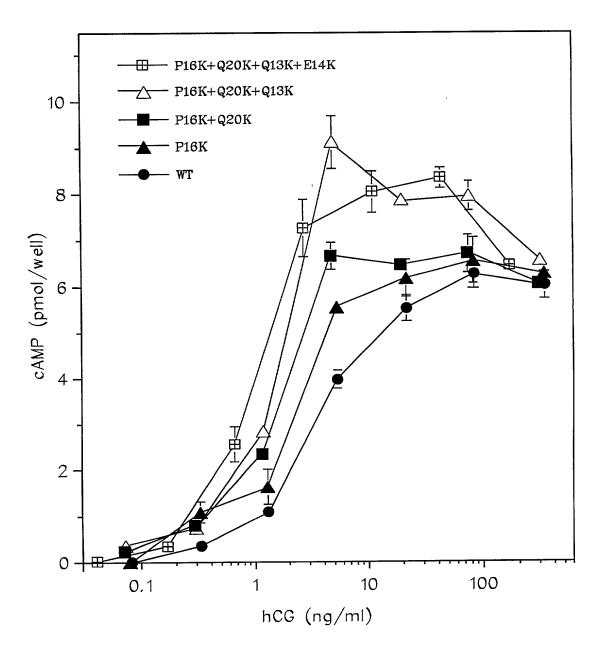
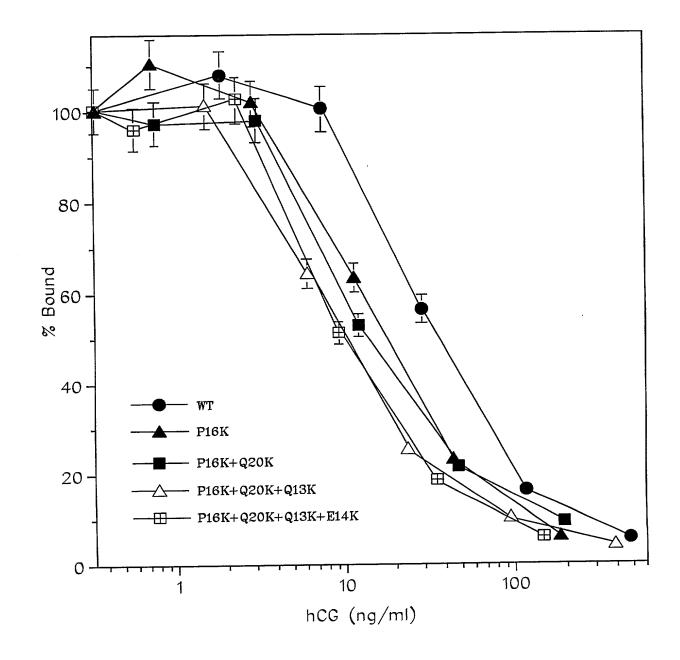


FIG. 3B



F/G. 3C



F/G. 3D